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41 Years after Björk–Shiley valve implantation: advanced preparation of a giant root pseudoaneurysm entrapping the right coronary artery

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A woman (64 years old) received a Björk–Shiley prosthesis after aortic valve endocarditis and presented with a pseudoaneurysm as an incidental finding 41 years later. During angiography, the

right coronary artery (RCA) could not be perfused. Computed tomography confirmed a trapped RCA, located between the right outflow tract and the aortic aneurysm (Figs 1 and 2).

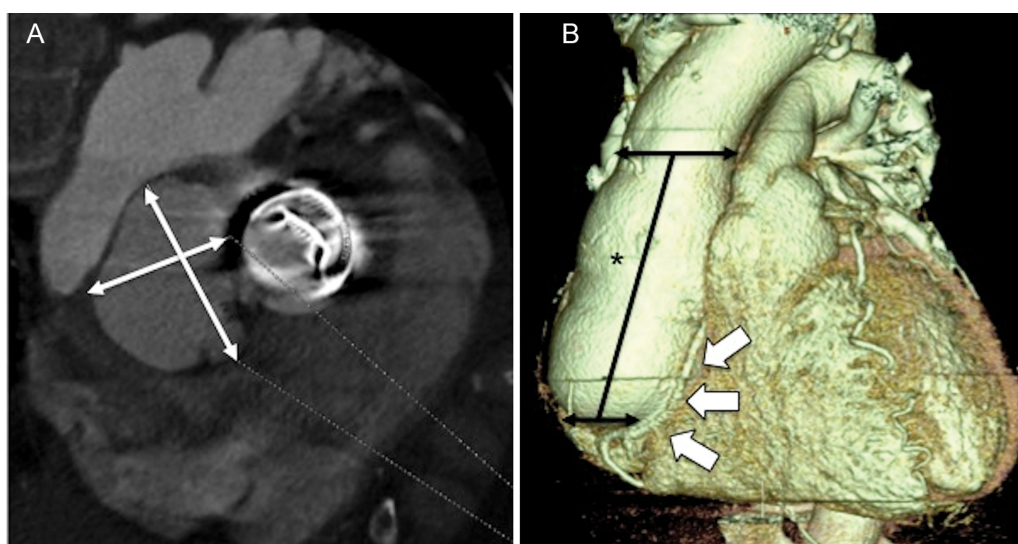


Figure 1: (A) Computed tomography shows the pseudoaneurysm arising from the aortic sinus (3×4 cm). At the annular level in the aortic position is a perfectly functioning Björk–Shiley prosthesis (dp mean 6 mmHg transvalvular). (B) 3D computed tomography demonstrating the aneurysm at its longest axis of 7.9 cm (asterisk). Arrows mark the course of the distal right coronary artery, which can be seen between the aneurysm and the right outflow tract.

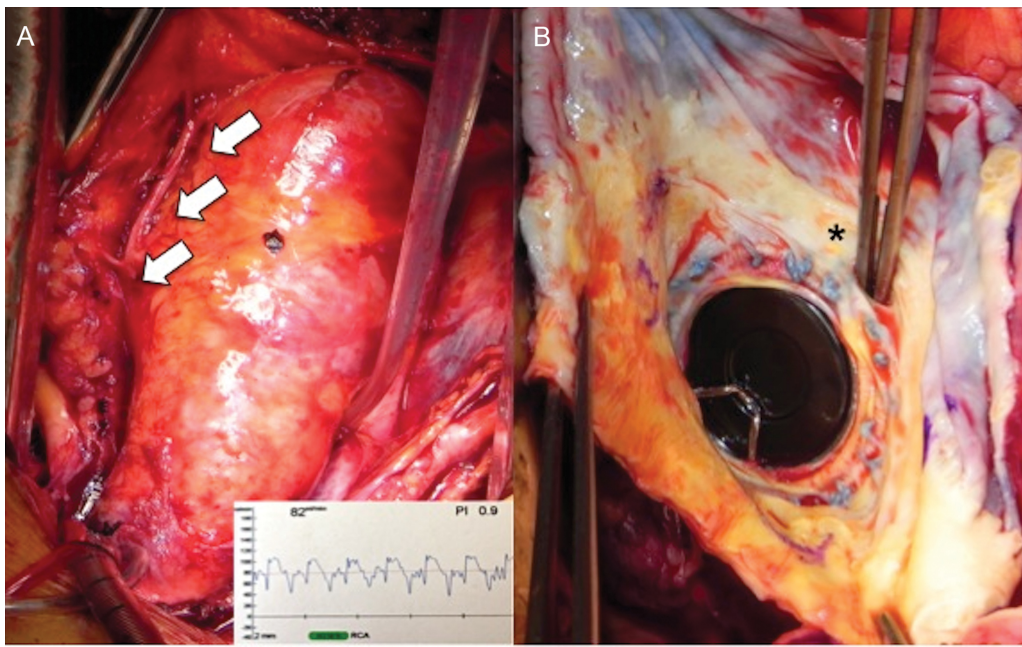


Figure 2: (A) Operating field with the prepared pseudoaneurysm and the right coronary artery (arrows). The small picture shows excellent flow at ~82 ml/min and a pulsatile index of 0.9. (B) Asterisk marks the origin of the paravalvular leakage arising from the aortic coronary sinus.